

REEL #

185

MUNISY.

KAL'YU, P.I.; LOGINOVa, Ye.A.; IL'IN, S.Ye.; MATSKO, B.M.; SCHL'MANH,  
O.M.; BRODSKIY, H.S., red.; ROMANOVA, Z.A., tekhn.red.

[Morbidity in the rural population; from data on visits to  
therapeutic and prophylactic institutions in ten rural districts]  
Zabolevaemost' sel'skogo naseleniya; po materialam obrazchenny-  
mosti v lechebno-profilakticheskikh uchrezhdeniiakh deistvi sel'skikh  
raionov. Pod red. P.I.Kil'iu. Moskva, Gos.izd-vo med.lit-ry  
Medgiz, 1960. 236 p.  
(PUBLIC HEALTH, RURAL--STATISTICS) (PUR 14:2)

KAL'YU, P.I.; LOGINVA, Ye.A.; MATSKO, B.M.; IL'IN, S.Ye.; STEL'MAKH, O.N.

Medical visits of the rural population related to diseases of  
the respiratory organs. Klin.med. 38 no.10:54-59 D '60.

1. Iz Instituta organisatsii zdravookhraneniya i istorii meditsiny  
imeni N.A. Semashko (dir. - Ye.D. Ashurkov).  
(RESPIRATORY ORGANS—DISEASES) (PUBLIC HEALTH, RURAL)  
(MIRA 13:11)

BERLIN, Viktor Il'ich; IL'IN, S.Ye., red.; LYUDKOVSKAYA, N.I.,  
tekhn. red.

[Study of general morbidity among the population in a rural  
district] Opyt izuchenija obshchei zabolеваemosti naselenija  
sel'skogo raiona. Moskva, Medgiz, 1961. 103 p.

(Plyussa District (Pskov Province))—Public health, Rural)  
(MIRA 15:7)

KAL'YU, P.I.; LOGINOVa, Ye.A.; IL'IN, S.Ye.; MATSKO, B.M.; STEL'MANN,  
O.N.

Incidence of circulatory diseases among the rural population as  
revealed by visits to therapeutic institutions. Zdrav. Ros.  
Feder. 5 no. 4:22-28 Ap '61.

(MIRA 14:4)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny  
imeni N.A. Semashko.

(CARDIOVASCULAR SYSTEM--DISEASES)

IL'IN, S. Ye. (Moskva)

Analysis of the records of medical examinations of juvenile workers. Gig. truda i prof. zab. 5 no.7:23-27 Jl '61.  
(MERA 15:7)

1. Nauchno-metodicheskoye byuro sanitarnoy statistiki Ministerstva zdravookhraneniya RSFSR.

(YOUTH--CARE AND HYGIENE)  
(YOUTH--EMPLOYMENT)

KAL'YU, P.I.; LOGINOVA, Ye.A.; IL'IN, S.Ye.; MATSKO, E.M.; SHIBUL'KAEV, O.N.  
(Moskva)

Structure and level of attendance of the rural population at medical  
and therapeutic institutions. Sov. zdrav. 20 no.7:17-22 '61.

(MLA 15:1)

1. Iz Instituta organizatsii zdравоokhraneniya i istorii meditsiny  
imeni N.A.Semashko Ministerstva zdравоokhraneniya SSSR.  
(PUBLIC HEALTH, RURAL)

IL'IN, S.Ye. (Moskva)

Some problems in the complex study of the state of health of adolescents. Sov. zdrav. 21 no.2:44-47 '62. (MIR 15:3)

1. Iz organizatsionno-~~metodicheskogo~~ otdela (zav. Z.T. Dyudina) Instituta glaznykh bolezney imeni Gol'mgol'sta (dir. - A.V. Roslavl'tsov) i Nauchno-metodicheskogo byuro sanitarny statistiki (dir. L.A. Brushlinskaya).

(ADOLESCENCE)

KRUZE, I., kandidat tehnicheskikh nauk; IL'IN, V., inzhener.

Use of machinery in taking off and putting on truck wheels.  
Avt.transp. 32 no.7:16-19 Jl '54. (MLRA 7:9)  
(Automobiles--Wheels)

GRACHEV, L. (Nizhniy Tagil); IL'IN, V. (Nizhniy Tagil); MALIKOV, I. (Nizhniy Tagil); RAKHKOVSKIY, M. (Nizhniy Tagil); SIBGATULLIN, N. (Nizhniy Tagil)

Electronic bridge circuit for fire prevention systems. Pozh.delo  
7 no.8:26 Ag '61. (MIRA 14:8)  
(Fire alarms) (Bridge circuits)

IL'IN, V.

Medical requirements when flying jet transport airplanes. Grazhd.av.  
13 no.7:33-34 Jl '56. (MLRA 9:9)  
(Aeronautics--Medical aspects)

IL'IN, V., inzh.

Spread the experience acquired in utilizing the exchange car  
center. Mor. flot 22 no.3:7-8 Mr '62. (MIRA 15:2)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-  
issledovatel'skiy institut morskogo transporta.  
(Cargo handling)  
(Railroads---Cars)

KHRISHCHENOVICH, kh.; RADAVICHYUS, E. [Radavichius, E.]; KALININ, I.;  
RYCHKOV, A.; MYANDMAA, E. [Mandmaa, E.]; IL'IN, V.

Increase the scope of efficiency work in financial organs. Fin.  
SSSR 37 no.1:62-68 Ja '63. (MIRA 16:2)

1. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Belorusskoy SSSR (for Khrishchenovich).
2. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Litovskoy SSR (for Radavichyus). 3. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Leningradskogo oblastnogo finansovogo otdela (for Kalinin). 4. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Tomskogo oblastnogo finansovogo otdela (for Rychkov). 5. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Estoniskoy SSR (for Myandmaa). 6. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Chuvashskoy ASRR (for Il'in).

(Finance) (Suggestion systems)

IL'IN, V.

Raise requirements and increase responsibility! File, SSSR 37 no.5:  
30-32 My '63. *a* (MIRA 16:5)

1. Zamestritel' ministra finansov Chuvashskoy ASSR.  
(Chuvashia—Finance) *V* (Chuvashia—Auditing and inspection)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9

IL'IN, V. (Frunze); ZAYTSEV, V. (Guynakesk, Dagestanskoy A.M.); YERIKENZHUV, M. (Serpukhov, Moskovskoy obl.); CHUGAYEVSKIY, N., inzh. (Moskovskaya oblast'); BRUKVA, N. (Kiyev); SYCHAYEV, S. (Myt'Lechch'); YEVTEYEV, V. (Rostov-na-Donu)

Exchange of experience. Radio no.4:20,33,36,39,40,53 Ap '65.  
(MIRA 18:9)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9"

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CIA-RDP86-00513R000618510001-9

ZAVADSKIY, B. I., ENGR.; IL'IN, V. A., ENGR.

Steam Boilers

Block mount for PK-10 boiler, Elek. sta., 23, no. 6, 1952

Monthly List of Russian Accessions, Library of Congress October 1952 Unclassified.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9"

ZAVADSKIY, B. I.; IL'IN, V. A., EDNS.

Steam Boilers - Testing

Hydraulic testing of boilers with the help of compressed air. Elek. sta. 23 no. 3, 1952.

Monthly List of Russian Acquisitions, Library of Congress, November 1952. Unclassified.

ZAVADSKIY, B.I., inzhener; IL'IN, V.A., inzhener.

Installing a boiler on previously prepared post foundation. Elektra, 24  
no.9:51-52 S '53. (MLRA 6:8)  
(Boilers)

LIM, Y. A.

"A Study of Certain Problems of the Safety of the Locomotives of  
Winter Rye." Comptoir Gén. d'État, Geneva, 1954. (MS. 1954),  
No. 1. See 54.

SP: Sum 432, 22 Mar 55

Hill, V.L., 2nd Lt. Col. (Ret.) "Worrell's Law of War" - "A system of  
systematic punishment of soldiers for negligence." (Hill, 1950, pp. 11-12)  
(*Ridder v. U.S. et al. Court of Appeals for the District of Columbia Circuit*), 200 F.2d 101 (1951)

USSR / Pharmacology, Toxicology, Narcotics.

V

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94124

Author : Il'in, V.A.

Inst : Not given

Title : Dynamics of Morphological Changes of the Nervous System in Alcoholic Intoxication.

Orig Pub : Zdravookhraneniye (Kishinev). 1958, No. 2, 28-37.

Abstract : Every day 2,5 - 3 ml/kg of pure ethyl alcohol diluted with 2/3 water was administered into each rabbit (100 animals) during the course of 1-½ years. It was shown that alcoholic intoxication effected all the elements of the nervous system - soft cerebrum membranes, nerve cells, their extension vessels and glia. The first period (20 days) is characterized with acute processes in the form of swelling, and hydropic in all parts

Card 1/2

IL'IN, V.A.

[Nervous system in alcoholism] Nervnaia sistema pri alkogolizme.  
Kishinev, Kartia moldoveniasko, 1959. 101 p. (MIRA 13:2)  
(ALCOHOLISM) (NERVOUS SYSTEM)

IL'IN, V.A.; KOZLYAKOV, V.V.; REPIN, S.I.

Tensiometric equipment for the control of floating dock strength.  
Trudy LKI no.35:5-12 '62. (MIRA 16:7)

1. Kafedra stroitel'noy mekhaniki korablya Leningradskogo  
korablectroitel'nogo instituta.  
(Floating docks) (Tensiometers)

670793/64 100100Z SEP 86 P001

RECEIVED BY AIR FORCE STATION 100000Z SEP 86  
AT 100000Z SEP 86

RECEIVED BY AIR FORCE STATION 100000Z SEP 86  
AT 100000Z SEP 86

ABSTRACT: AS WELCOMING THE LAUNCHING THE TRANSFER OF SIGHT  
TO THE AIR FORCE STATION 100000Z SEP 86  
AT 100000Z SEP 86

case, we have a very good chance of getting it right.  
The first thing we have to do is to find out what the  
relationship is between the two sets of data. We  
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the two sets of data. We have to find out what the  
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find out what the relationship is between the two sets of data.

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The following table gives the initial point of an additional path and the terminal point are given. Orig. art. has 56 formulas.

SURAH TTTD- 03 / 03

**APPROVED FOR RELEASE: 04/03/2001**

CIA-RDP86-00513R000618510001-9"

1. *Chlorophytum comosum* (L.) Willd.

19. *Leucosia* *leucostoma* *leucostoma* *leucostoma*

1.  $\{C_1, C_2, \dots, C_n\}$  2.  $\{A_1, A_2, \dots, A_m\}$

WILHELMUS K. SHARP P.

Relationships are measured, principally, by  $\text{Cu}$ , and  $\text{W}$ .

<sup>1</sup> See also the discussion of the relationship between the two concepts in the section on "The Concept of Social Capital."

<sup>10</sup> See also the discussion of the relationship between the concept of ‘rule of law’ and the concept of ‘rule by law’ in the section on ‘The Rule of Law’.

在於此，故其後人之學，亦復不能不以爲然。蓋當時之士，多以爲子雲之賦，雖有過人之才，而實無過人之思，故其文辭雖美，而氣韻不足，故其後人之學，亦復不能不以爲然。

In general, the x-ray reflection intensity decreased with increasing dose  $10^{10}$  n/cm<sup>2</sup>, the corresponding rates were measured at different doses. The ratio of polybutene-1 to polybutene-2 irradiated materials was constant. In general, the x-irradiation produced an exponential attenuation in the ratio of the irradiated to the non-irradiated materials. The decrease in the reflections from certain crystalline structures was probably due to anisotropy of the atomic arrangement in the irradiated metals. The decrease produced in the integral intensity of the x-ray reflections on going from liquid nitrogen temperature to room temperature was the same for all materials studied. This indicates that the decrease in the intensity of the x-ray reflections of the irradiated materials is not due to the presence of atoms occupying interstitial sites between the lattice sites, the magnitude of the decrease being proportional to the dose rate dependent on the crystal morphology. The results are presented by G. V. Kurdyumov. On the basis of the data

Technical Information Division, Institute of Ferrous Metallurgy, Ministry of Non-Ferrous Metals, Chinese Academy of Sciences, Beijing, China

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618510001-9"

IL'IN, Viktor Andreyevich; FEDCHENKO, V. P. red.

[On the border between two elements] Na grani dvukh stikhii.  
Moskva, Molodaiia gvardiia, 1964. 139 p. (MIRA 18:3)

IL'IN, V.A., kapitan meditsinskoy sluzhby

Two types of orthopedic apparatus for treating stiffness of the  
talocrural joint. Voen.-med. zhur. no.6:85-86 Ja '51. (MLRA 9:9)  
(ANKLE--DISEASES) (ORTHOPEDIC APPARATUS)

IL'IN, V.A.

Orthopedic apparatus for the treatment of difficulty of movement of the ankle joint. Khirurgiia, Moskva no.4:87-88 Apr 1953. (CIML 24:4)

1. Of the Clinic for Hospital Surgery (Director -- Prof. G. M. Davydov), Arkhangel'sk Medical Institute. 2. Deals with braces attached to shoes.

IL'IN, V.A., kandidat meditsinskikh nauk.

New osteoplastic method in treating habitual anterior  
dislocations of the mandibular joints. Stomatologiya, no.6:46  
M-D '55 (MIRA 9:5)

(JAW--SURGERY)

IL'INA, Ye. I. Cadd Med Sci -- (diss) "Blood Supply of Tendon  
Flexors of the Finger Bones in Man," Omsk, 1960, 16 pp, 22 copies  
(Omsk State Medical Institute im M. I. Kalinin) (KL, 49/60, 128)

IL'IN, V.A., kand.med.nauk

Use of new accelerated methods for applying plastic dental splints.  
Stomatologija 39 no.6:56-58 N-D '60. (MIRA 15:1)

1. Iz Stalinskogo nauchno-issledovatel'skogo instituta travmatologii,  
ortopedii i protezirovaniya (dir. - kand.med.nauk T.A. Revenko).  
(PLASTICS IN MEDICINE) (DENTAL PROSTHESIS)

L 05095-67 EWI(a)/EWP(1) IJP(c) BB/GG  
ACC-NRI AP6013301

SOURCE CODE: UR/0413/66/000/008/0097/0097

AUTHORS: Bobrov, I. I.; Ivanov, K. G.; Il'in, V. A.

ORG: none

TITLE: A method of depositing a printed winding on ferrite wafers of a memory cube.  
Class 42, No. 180852

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 97

TOPIC TAGS: storage device, printed circuit, computer memory, ferrite core memory

ABSTRACT: This Author Certificate presents a method for depositing a printed winding on ferrite wafers of a storage cube. The method increases the productivity of labor and simplifies the technological process. A negative picture of the winding is applied to the copper-coated ferrite wafer by printing with a polygraphic pigment and a deep steel stamped form. A galvanic silver plating of the printed winding is produced in an acid electrolyte. The pigment is removed, and the copper is etched away from the blank sections by an etching agent. The silver film of the winding is not destroyed.

SUB CODE: 09/ SUBM DATE: 19Nov64

UDC: 681.142.07.002.2

surface phenomena at the boundary between the solid and the solution. Change in the heat of wetting in surfactant materials by the introduction of an electrolyte V. Ilin, V. V. Semenchenko and V. I. Ivanov. *J. Phys. Chem.* (U. S. S. R.) 3, 521 (1953). The heat of wetting of C with aq. soln. of NaCl and of iso-BuOH and with EtOH soln. iso-BuOH was measured in the presence of an electrolyte (NaCl). It was established that the heat of wetting of a C system with a soln. of surface-active materials is increased by adding a little electrolyte and differs very greatly from that of the substance added. The increase of the heat of wetting is qualitatively explained by means of a formula derived on the assumption that the generalized moment of the solvent is increased by the presence of an electrolyte. Curves show the dependence of  $\Delta Q$ , the mol. heat of adsorption, on the concn. of NaCl. M. Geller

Rapid determination of sulfuric acid in chromium-plating baths. V. A. Il'm. Zavodskaya Lab. 16, 1000 (1948).—The c.d. corresponding to the potential break at which Cr deposition begins depends on the concn. of  $\text{H}_2\text{SO}_4$  in the bath, or more specifically on the ratio of  $\text{CrO}_3$  to  $\text{H}_2\text{SO}_4$ , other conditions being const. Data at 17-18° were made to plot a "calibration curve" which can be used for estn. of  $\text{H}_2\text{SO}_4$  concn. in the bath. Typical values are:  $\text{CrO}_3/\text{H}_2\text{SO}_4$ , 207; c.m.f., 0.05amp.; st. dim., 20; 0.8, 103, 1.3, 114, 1.8, 100, 2.0, 90, 2.6, 62, 3.5, 67, 3.7. Fresh baths give large deviations, but after brief operation the above results hold true. Accumulation of Cr does not affect validity of the method within limits of Cr plating practice. The temp. coeff. is larger, however, and c.m.f. 2.0 at 18° rises to 4.0 at 30°. Electrode spacing varies with voltage, but not with c.d. Cathode material is significant: zinc gives 3.0, Cu 3.6, Ni 4.0 and 4.7 c.m.f. typical under comparable conditions. The results are usually within 10% of obs. values. The data proper made with a brass cathode and Pb anode and the c.d. initially fixed, the applied voltage is increased until the jump is observed and the c.d. corresponding to it is then used with the calibration curve, with the known Cr concn. in the bath.

G. M. Kosolapoff

LA

4

Chromium plating of steel articles without an under-coat. R. I. Kondravskaya and V. A. Il'lin. *Met. Prom.* S.S.R. 1949, No. 3, 33-4. - The article is polished with fine emery, or buffed, degreased cathodically in a soln. of NaOH 10; Na<sub>2</sub>CO<sub>3</sub> 25; Na<sub>3</sub>PO<sub>4</sub> 25; Na<sub>2</sub>SO<sub>4</sub> 3 g./l., 1-2 min. at (0)-70°, 5 amp./sq. dm. (longer degreasing should be avoided), rinsed; etched 5-10 sec. in 5% HCl; rinsed; and plated in a soln. of CrO<sub>3</sub> 330-70, H<sub>2</sub>SO<sub>4</sub> 3-3.5, trivalent Cr 2-3 g./l., at 52-57°, 24-6 amp./sq. dm., 30 min. The Cr coating is 6  $\mu$  thick and proves to be less porous than a 15  $\mu$  Ni deposit on the same basic surface. The Cr deposit is milky and can be polished. N. Th.

CA

**Etching of stainless-steel dental crowns.** B. I. Kostovskaya and V. A. Ustinov. *Akad. Prom. S.S.R.* 1949, No. 3, 34-6.—After annealing at 1000-1050°, the scale is removed by 20-30 min. etching in  $H_2SO_4$  25, HCl 25,  $H_2O$  50 vol. %, at 60-70°, then the resulting dark deposit is removed by 20-60 min. immersion in a  $HNO_3$  soln. at 50-60° which leaves a glossy surface. N. Thor

A Rapid Method of Determining Sulphuric Acid in Chromium Plating Electrolytes. V. A. Il'ia. (Electroplating, 1949, Vol. 3, Dec., pp. 130-131). This is a translation into English of an article which appeared in Zavodskaya Laboratoriya, 1948, vol. 14, Nov., pp. 1300-1300. The determination of sulphuric acid in chromium plating electrolytes at the Krasnogvardeets Works is based on the electrochemical processes that take place during the electrolysis of the chromium plating electrolyte. A description of the method which takes only 10-15 min., is given. The maximum error is 13%, and as this is compensated by the rapidity of determination, the method can be applied in practice.—J. C. R.

IL'IN, V. A.

Photographic Chemistry

Photochemical method of reproduction on metal. Med.prom., No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952 Unclassified.

IL'IN, V.A.; KRITSKAYA, V.K.; KURDYUMOV, G.V.

Anisotropy of distortion of the crystal lattice of martensite. Doklady  
Akad. Nauk S.S.R. 85, 997-9 '52. (MLRA 5:9)  
(CA 47 no.22:11868 '53)

IL'IN, V.A.

Galvanic coating of aluminum and aluminum alloys. Med.prom. no.2:  
12-15 Ap-Je '55. (MLRA 9:12)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeyets."  
(APPARATUS AND INSTRUMENTS,  
aluminum & aluminum alloy med. instruments, galvanic  
coating)  
(ALUMINUM,  
aluminum & aluminum alloy med. instruments, galvanic  
coating)

IL'IN, V.A.

Improving the screw fit of thread parts. Med.prom. 10 no.4;35-37  
O-D '56. (MLRA 10:2)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeyets".  
(SCREW CUTTING)

IL'IN, V.A.

GOHERMAN, P.N.; IL'IN, V.A.

Method for studying the nature of plating distribution on  
thread profiles. Zav.lab, 22 no.10:1207 '56. (MLRA 10:5)

1.Leningradskiy institut tochnoy mekhaniki i optiki i zavod  
"Krasnogvardeyets".  
(Metallography)

LL'IN, V.A.; KURTTS, L.Y.I.

Using the electric jet method for determining the thickness of  
electrodeposited coatings. Med.prom. ll no.9:50-52 S '57.  
(MKBA 10:12)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeyets"  
(ELECTROPLATING)

Il'in, V. A.

137-58-1-2034

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 276 (USSR)

AUTHORS: Il'in, V. A., Kurtts, L. Yu.

TITLE: Electrical Jet Null Method of Determining the Thickness of Coatings (Elektrostruynyy nul'-metod opredeleniya tolshchiny gal'vanopokrytiy)

PERIODICAL: Materialy po obmenu optyom i nauchn. dostizh. v med. prom-sti 1957, Nr 3 (22), pp 90-92

ABSTRACT: It is shown that the existing, widely employed intermittent-jet, volumetric-jet, and drop methods of determining the thickness  $h$  of plated coatings do not provide results of sufficient accuracy, particularly in measuring small thicknesses. A new instrument for electrical jet determination of  $h$  has been elaborated and developed. By means of this method, the end of dissolution is determined by the change in the emf of the "platinum-specimen" voltaic cell developed as the coating dissolves, at the point where the jet of solution impinges upon the specimen. At the instant that the undercoating or base metal of the part is exposed, the emf of the voltaic cell will change. Measurement of the emf is by the null method. An external emf is connected potentiometer.

Card 1/2

137-58-1-2034

**Electrical Jet Null Method of Determining the Thickness of Coatings**

metrically counter-current to the emf of the voltaic cell. The potentiometer is used to attain complete compensation of the emf that had arisen and to hold the galvanometer pointer to zero. A pronounced deviation of the hand of the instrument indicates that dissolution has come to an end. It is shown that the instrument affords a significant acceleration and also an increase in the accuracy of the measurement of  $h$  of multiple coatings, with determination thereof independently for each layer.

T. M.

**1. Coatings--Thickness--Determination--Methods**

Card 2/2

PHASE I BOOK EXPLOITATION

SOV/3963

Il'in, Vitaliy Alekseyevich

Luzheniye i svintsevaniye (Tin Plating and Lead Plating) Moscow, Mashgiz,  
1958. 31 p. (Series: Biblioteka gal'vanotekhnika, vyp. 4) Errata  
slip inserted. 9,500 copies printed.

General Ed.: P. M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer:  
V. A. Fedorov, Engineer; Editorial Board: P. M. Vyacheslavov (Chairman),  
S. Ya. Grilikhes, Candidate of Technical Sciences, and A. M. Yampol'skiy,  
Engineer; Ed. of this book: A. M. Yampol'skiy; Managing Ed. for  
Literature on the Design and Operation of Machinery: (Leningrad Division,  
Mashgiz): F. I. Fetisov, Engineer; Ed. of Publishing House: N. Z.  
Simonovskiy; Tech. Ed.: L. V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians,  
and foreman of electroplating and electroforming shops.

COVERAGE: The book is the fourth volume of the "Little Library of  
Electrodeposition" series. The author reviews the electrodeposition of  
tin and lead on metals from various electrolyte compositions, describes  
preparation methods, properties and special characteristics of electrolytes,  
and points out sources of malfunction in the electrodeposition process.

Card 1/2

**Tin Plating and Lead Plating**

SOV/3963

No personalities are mentioned. There are 13 references, all Soviet.

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JA/cdw/ec  
8-24-60

SOV/3962

Il'in, Vitaliy Aleksseyevich

Teinkovaniye i kadmirovaniye (Galvanizing and Cadmium Plating)  
 Moscow, Mashgiz, 1958. 44 P. (Series: Biblioteka gal'vanotekhnika,  
 vyp. 3) 8,000 copies printed. Errata slip inserted.

General Ed.: P. M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer:  
 V. A. Fedorov, Engineer; Editorial Board: P. M. Vyacheslavov (Chairman),  
 S. Ya. Grilikhes, Candidate of Technical Sciences, and A. M. Yampol'skiy,  
 Engineer; Ed. of this book: A. M. Yampol'skiy; Managing Ed. for  
 Literature on the Design and Operation of Machinery (Leningrad Division,  
 Mashgiz); F. I. Fetisov, Engineer; Ed. of Publishing House: N. Z.  
 Simonovskiy; Tech. Ed.: L. V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians,  
 and foreman of electroplating and electroforming shops.

COVERAGE: The book is the third volume of the "Little Library of Electro-  
 deposition" series. The properties of anticorrosive zinc and cadmium  
 coatings on steel are described. The composition of common electrolytes  
 used in electroplating, methods of preparing them, and ways of eliminating

Card 1/3

Purpose of cadmium plating

25

29

35

xx

IL'IN, Vitaliy Alekseyevich; BOGORODITSKAYA, V.A., inzh., rotsenzenz; VYACHESLAVOV, P.M., kand. khim. nauk, dots., red.; GRILIKHES, S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; DUBUSOVA, G.A., red. izd-va; BARDINA, A.A., tekhn. red.

[Tin and lead plating] Lushenie i svintsevanie. Pod red. P.M. Viacheslavova. Izd.2., dop. i perer. Moskva, Mashgiz, 1961.33 p. (Bibliotekha gal'vanotekhnika, no.3) (MIRA 16:2)  
(Tin plating) (Lead plating)

FEDOT'YEV, N.P., prof.; IL'IN, V.A.; CHERNOZATONSKAYA, N.N.;  
YAMPOL'SKIY, A.M., kand. tekhn. nauk, red.; SHILLING,  
V.A., red.izd-va; GVIERTS, V.L., tekhn. red.

[Electrodeposition of silver from solutions of cyanide-free complex salts] Elektroosazhdenie serebra v rastvorov netsianistykh kompleksnykh solei. Leningrad, 1962. 18 p.  
(Leningradskii dom nauchno-tehnicheskoi propagandy. Otdelen peredovym opyтом. Seriya: Zashchitnye pokrytiia, no.8)  
(MIRA 16:3)

(Silver plating)

IL'IN, Vitaliy Alekseyevich; BRUK, E.S., inzh., retsenraent; VYACHESLAVOV,  
P.M., kand. khim.nauk,dots., red.; CRILIKHES, S.Ya., kand.tekkhn.  
nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; MITARCHUK, G.A., red.  
izd-va; BARDINA, A.A., tekhn. red.

[Zinc and cadmium plating] TSinkovanie i kadmirovaniye. Pod red.  
P.M.Vyacheslavova. Izd.2., dop. i perer. Moskva, Mashgiz, 1961.  
48 p. (Bibliotekha gal'vanotekhnika, no.2) (MIEA 16:2)  
(Zinc plating) (Cadmium plating)

BELINKIN, Arnol'd Abramovich; BASHNIN, Lev Nikolayevich; IL'IN, V.A.,  
red.; GRIGOR'YEVA, I.S., red. izd-va; BELOGUROVA, I.A.,  
tekhn. red.

[Mechanization of ornamental grinding and polishing operations]  
Mekhanizatsiya dekorativnykh shlifoval'no-poliroval'nykh rabot;  
opyt zavoda "Krasnogvardeets." Leningrad. 1962. 30 p.  
(MINA 15:8)

(Grinding and polishing)

YAMPOL'SKIY, Anatoliy Mikhaylovich; IL'IN, Vitaliy Alekseyovich;  
DANILOV, I.A., inzh., retsenzent; CHERKEZ, M.B., kand. tekhn.  
nauk, red.; ONISHCHENKO, R.N., red. izd-va; SHCHEGININA, L.V.,  
tekhn. red.

[Brief handbook of electroplating and electroforming] Kratkiy  
spravochnik gal'vanotekhnika. Moskva, Mashgiz, 1962. 244 p.  
(NIRA 15:7)

(Electroplating ..Handbooks, manuals, etc.)

ABRAMOVA, Nina Nikolayevna; RAKOVA, Irina Pavlovna; IL'IN, V. A.  
red.; GRIGOR'YEVA, I.S., red. izd-va; GVIKTS, V.L., tekhn.  
red.

[Bright zinc plating in an ammoniate electrolyte] Blestiaishches  
tsinkovanie v ammiakatnom elektrolite. Leningrad, 1963. 13 p.  
(Leningradskii dom nauchno-tehnicheskoi propagandy. Obmen  
peredovym opyтом. Seria: Zashchitnye pokrytila, no.1)  
(MIRA 16:5)

(Zinc plating)

FEDOT'YEV, N.P.; IL'IN, V.A.

Electrodeposition of silver from noncyanide electrolytes.  
Zhur. prikl. khim. 36 no.8:1763-1768 Ag '63. (MIRA 16:11)

BERG, A.I., glav. red.; TRAFENNIKOV, V.A., glav. red.; TSYPKIN,  
Ya.Z., doktor tekhn. nauk, prof., red.; VORONOV A.A.,  
prof., red.; AGEYKIN, D.I., doktor tekhn.nauk red.; GAVRILOV,  
M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.;  
SOTSKOV, B.S., red.; CHELYUSTKIN, A.B., doktor tekhn. nauk,  
red.; PROKOF'YEV, V.N., doktor tekhn. nauk, prof., red.;  
IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I.,  
doktor tekhn. nauk, red.; KRINITSKIY, N.A., kand. fiz.-mat.  
nauk, red.; KOGAN, B.Ya., doktor tekhn. nauk, red.; USHAKOV,  
V.B., doktor tekhn. nauk, red.; LEHNER, A.Ya., doktor tekhn.  
nauk, prof., red.; FEL'DBAUM, A.A., doktor tekhn. nauk, prof.,  
red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, red.; KHARKEVICH,  
A.A., akademik, red. [deceased]; TIMOFEEV, P.V., red.;  
MASLOV, A.A., dots., red.; TRUTKO, A.F., inzh., red.; LEVIN,  
G.A., prof., red.; LOZINSKIY, M.G., doktor tekhn. nauk, red.;  
NETUSHIL, A.V., doktor tekhn. nauk, prof., red.; POPKOV, V.I.,  
red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.;  
LIFSHITS, A.L., kand. tekhn. nauk, red.; AVEN, O.I., kand.  
tekhn. nauk, red.; BLANN, O.M. [Blunn, O.M.], red.; BROYDA, V.,  
inzh., prof., red.; BREKK'L', L [Brockl, L.] inzh., kand. nauk, red.;  
VAYKHARDT, Kh. [Weichardt, H.], inzh., red.; BOCHAROVA, M.D., kand.  
tekhn. nauk, st. nauchn. red.

[Automation of production processes and industrial electronics]  
Avtomatizatsiya proizvodstva i promyshlennaya elektronika; entsiklo-  
pediya sovremennoi tekhniki. Moskva, Sovetskaya entsiklopediya.  
Vol.4. 1965. 543 p. "IRA 18:6)

IL'IN, V.A.; SHASTOVA, G.A.

Some studies on the theory of communication in systems of  
regulation and control. Izv. AN SSSR. Tekh. Kib. no. 5:112-  
113 S-0 '63. (MIRA 16:12)

IL'IN, Viktor Aleksandrovich, doktor tekhn. nauk prof.

[Remote control and its use in the national economy]  
Telemekhanika i ee primenenie v narodnom khoziaistve.  
Moskva, Nauka, 1965. 148 p. (MIRA 18:10)

IL'IN, V. A.

Cand. Tech. Sci.

"Long Lines with Parameters which Vary According to Length," Elektrichesstvo,  
No.2, 1950

Inst. Automatics and Telemechanics, AS USSR

IL'IN, V. A.

USSR/Electronics - Transmission Lines    21 Nov 51  
Matching

"Selection of a Nonhomogeneous Long Line for Matching Impedances Over a Wide Band of Frequencies,"  
V. A. Il'in, Inst of Automatics and Telemech, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXI, No 3, pp 395-399

Shows that an impedance-transforming line with very low-frequency distortion over a wide band of frequencies can be obtained by selecting the proper variation of line parameters along its length.  
Submitted by Acad A. I. Berg 5 Oct 51.

204TE3

IL'IN, V.; SOKOLOV, F.

Electric Current Rectifiers

Use of selenium rectifiers. Kinomekhanik no. 8, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. Unclassified.

IL'IN, V.; SOKOLOV, F.

New scheme of selenium rectifier bridges used in the VS-60A rectifiers.  
Kinomekhanik no.4:18-22 Ap '53. (MLRA 6:6)  
(Electric current rectifiers)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9

HIN, V. A.

"Multi-Channel Distance-Measurement Devices with Interim Division" from the book  
Remote Control of Power Systems, published by the AS USSR, 1954.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9"

EL'IN, V.A.

GAVRILOV, M.A., otvetstvennyy redaktor; IL'IN, V.A., redaktor; KRASIVSKIY,  
S.P., redaktor; KURDYUKOV, K.P., redaktor; MALOV, V.S., redaktor;  
RAYNES, R.L., redaktor; BRYLEVYEV, A.M., redaktor; GRANCOVA, Ye.D.,  
tekhnicheskiy redaktor

[Telemechanics in power engineering systems] Telemekhanizatsiya  
energosistem; materialy soveshchaniia 1952 g. po telemekhanizatsii  
energosistem. Moskva, Izd-vo Akademii nauk SSSR, 1954. 213 p.  
(MLRA 8:3)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.  
(Remote control) (Electric power)

Ilyn, V. A.

USSR/ Electricity - Instrumentation

Card 1/1 : Pub. 124 - 6/35

Authors : Ilyn, V. A., Dr. of Techn. Sc.

Title : New instrument for large electrical-power systems

Periodical : Vest. AN SSSR 7, 41-43, July 1954

Abstract : The development of a new instrument - tele-phasmeter - for measurement of delta-phase displacements, for manual and automatic control of the performance of generators etc., is described. The tele-phasmeter, designed and constructed by the Institute of Automatics and Telemechanics of the Acad. of Sc. USSR, consists of transmitting and receiving units and functions on HF-power lines. Illustrations of the two separate parts of the tele-phasmeter are included.

Institution : .....

Submitted : - .....

Il'in, V. A.

USSR/Physics - Electrodynamics

Card 1/1

Author : Il'in, V. A.  
Title : Electrodynamic problems for nonideally conducting bodies having angular lines  
Periodical : Dokl. AN SSSR, 97, Ed. 2, 213 - 216, July 1954  
Abstract : The development of an approximate method of solution of electrodynamic problems that may take place in finding a behavior of non-ideally conductive bodies having angular lines (contour). Four references.  
Institution : ...  
Presented by : Academician S. L. Sobolev, April 8, 1954

USSR/Electronics - Radio wave-guides

Card 1/1 : Pub. 22 - 11/44

Author(s) : Il'in, V. A.

Title : Excitation of non-ideal radio wave guides

Periodical : Dok. AN SSSR 98/6, 925-928, October 21, 1954

Abstract : A solution of a problem of non-ideal wave guides is considered. The solution is accomplished in approximate forms with a precision up to the terms of the 1st and the 2nd orders with respect to the value  $N$ , which is a ratio of the wave numbers  $k_1/k_2$ , i.e., numbers characterizing wave propagation in a medium of the wave guide and in the metal. Several Russian references (1954).

Institution : Moscow State University im. M. V. Lomonosov

Presented by: Academician B. A. Vvedenskiy, May 31, 1954.

Card 1

Authors : I. V. Vyedenskiy

Title : Diffraction of electro-magnetic waves due to non-ideally conducting (e-m waves) wedge and the problem of shore refraction

Periodical : Dok. Akad. Nauk SSSR 99/1, 47-50, Nov 1, 1954

Abstract : A method of an approximate solution of the problem on electro-magnetic wave diffraction for the case of a non-ideally conducting (e-m waves) wedge is given. The results of this solution led to the outlining of a solution of the problem of the propagation of oceanic waves in the presence of the refraction of oceanic waves at the coast.

Institution : Moscow State University im. M. V. Lomonosov

Presented by : Academician B. A. Vyedenskiy, May 31, 1954

IL'IN, V. A.  
USSR/Automatics and Telemechanics

FD-2654

Card 1/2      Pub. 10-1/15

Author : Il'in, V. A.  
Title : The principal scientific problems of telemechanics (remote control)  
Periodical : Avtom. i telem. 16, Jul-Aug 1955, 321-327

Abstract : Lead article. The author states that telemechanics is employed in electric power systems, in railroad, air, and water transportation, in the petroleum industry, in mining, in large factories, in irrigation systems, etc., wherever the control point is separated from the machines by distances of several or hundreds of kilometers. One of the main characteristics of telemechanics is the presence of extended channels of communications over which special reports (information) are transmitted. In the solution of one of the main problems of telemechanics, i.e. the reliable transmission of information, arise more particular problems: interference stability of the systems and also the precision and reliability of operation of the technical means of telemechanics. The problem of interference stability in the general form was solved theoretically by V. A. Kotel'nikov for fluctuational interference of the "white noise" type. The application and certain development of V. A. Kotel'nikov's theory of potential interference-stability to tasks of remote control was given in a work of G. A. Shastova, part of

Card 2/2

FD-2654

which was published in this journal. An effective way to decrease transmission errors is the use of the method of compensation, of feed-back converters, and the method of periodic sending of calibrating signals. Application of a special case of the method of compensation was described in an article of V. I. Stepanov in this journal. The most important tasks of telemechanics are the creation of converters with stable coefficients of conversion, the development of the theory of converters, and the working out of methods for increasing the accuracy of telemetering devices. The problem of increased reliability is connected with application of magnetic elements with rectangular hysteresis loops, treated by K. G. Mityushin and V. A. Zhzhikashvili in this journal. The theoretical principles governing the reliability of telemechanic systems for given probability of output from individual elements were for the first time given in a report by Sh. G. Bebiashvili at the May 1955 session in honor of A. S. Popov; his procedure of calculating permits one to determine the probability of disruption of operation of a system in time according to the given-in-time probabilities of output from the individual elements. The next important problem of telemechanics is the transmission of the maximum amount of information with the least volume of signal, the so-called problem of the effectiveness of transmission of information, as treated by V. A. Motel'nikov. Another important problem of effectiveness is the separation (selection) of signals.

*Il'in, V. I.*

USSR/Automatics and telemechanics

FD-2660

Card 1/1 Pub. 10-7/15

Author : Il'in, V. A., and Novikov, A. I. (Moscow)

Title : Choice of multichannel pulse telemetering systems

Periodical : Avtom. i telem. 16, Jul-Aug 1955, 372-381

Abstract : The authors consider the most characteristic multichannel telemetering systems. They present quantitative evaluations of them. On the basis of expounded criteria they compare the systems and analyze the trends of their development. They conclude that the development of telemechanization necessitates a wider application of multichannel pulse systems, which in industrial telemechanics permit a more rational transmission of several remote readings from one point to another. In aviation multichannel radiotelemetering systems permit more convenient transmission of information necessary for airplanes and create the possibility of the automatization of take-off, flight, and landing of aircraft. The authors note that some of the most prospective commutators in telemetering systems are commutators based on magnetic elements with rectangular hysteresis loops. Fourteen references, e.g. "Trochotrons and their application," Voprosy raketnoy tekhniki [Problems of rocket techniques], No 1, 1952; "Collection of translation on the techniques of transmission of results of measurements by radio, under the editorship of P. I. Yevdokimov, B. Kh. Krivitskiy and Yu. A. Shumikhin," Military Press, 1955.

Institution :

Submitted : March 16, 1955

*Translation 563711*

GAVRILOV, M.A., otvetstvennyy redaktor; IL'IN, V.A., redaktor; ZHOZHIKASHVILI,  
V.A., redaktor; PETROVSKIY, A.M., redaktor; MALOV, V.S., redaktor;  
OSTIANU, V.M., redaktor; POBEDIMSKIY, V.V., redaktor izdatel'stva;  
KISHIMVA, A.A., tekhnicheskiy redaktor

[Remote control in the national economy] Telenekhanizatsiya v  
narodnom khoziaistve; materialy soveshchaniia. Moskva, Izd-vo  
Akademii nauk SSSR, 1956. 481 p. (MLRA 9:8)

1, Soveshchaniye po telemekhanizatsii v narodnom khozymistve SSSR.  
Moscow, 1954.

(Remote control) (Telemetering)

Il'ia, V. A. Dr. Tech. Sci.

"Basic Problems of Scientific Research Works in the Field of Telemetry"  
(Osnovnyye problemy nauchno-issledovatel'skikh rabot v oblasti telemizmerniy)  
from the book Telemechanization in National Economy, pp. 51-58, Iz. AN SSSR,  
Moscow, 1956

(Given at meeting held in Moscow, 29 Nov.-4 Dec. 54 by Inst. of Automatics  
and Telemechanics AS USSR)

IL'IN, V.A. KASHTELYAN, V.Ye.; POZIN, N.V.; URUSOV, I.D.

Electronic excitation regulator for synchronous generators  
operating on long-distance transmission lines. Izv.AN SSSR.Otd.  
tekhn.nauk no.12:14-29 D '56. (MLRA 10:1)  
(Electronic instruments) (Electric generators)

IL'IN, V. A.

"The International Congress on Cybernetics (Namur, Belgium 1956)" Novoye  
vremya [New Times], 1956, No. 33, Pages 26 - 28.

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9

IL'IN, V.A.

Notes on V.S.Malov's paper "On scientific problems of telemechanics".  
Avtom.i telem. 17 no.2:192 F '56. (MIRA 9:7)  
(Malov, V.S)(Telemetering) (Remote control)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000618510001-9"

IL'IN, V.A., doktor tekhnicheskikh nauk.

At the Congress on Cybernetics. Vest. AN SSSR 26 no.11:72-75 N 156.  
(Namur, Belgium--Cybernetics--Congresses) (MLRA 9:12)

IL'YIN, V. A. (Dr. Tech. Sci.); MALOV, P. S. (Cand. Tech. Sci.)

"Basic questions of the theory of telemeasurement."

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of  
Automatic Production, 15-20 October 1956.

Automatika i telemekhanika, No. 2, 1957, p. 182-192.

9015229

IL'IN, V.A.  
AUTHOR  
TITLE

PERIODICAL  
ABSTRACT

IL'IN V.A.  
(O strukture telemekhanicheskikh liniy dlya rassredotcheniya chisla yektorov -Russian)  
Avtomatika i Telemekhanika, 1957, Vol 18, Nr 7, pp 653-659 (U.S.S.R.)  
The security dependent on the structure as well as the relative length of transmission lines are investigated. On account of the analysis the following recommendations are made for the selection of transmission lines for distributed objects: 1.-A beam line is ended for objects distributed over a plane if the number of points is  $N \geq 1, 2$ .-The curves  $k = \frac{P_0}{P_k L_k} = \varphi(m)$  have suitable maxima. 103-2-6/11  
 $P_0$  and  $P_k$  are the probability of the damaging of a not-operating line or a beam line.  $L_0$  and  $L_k$  are the total length of a not operating line or a beam line.  $m$  is the number of the beams. The coefficient of the quality of the line  $\gamma_k$  decreases only by about 10 % in the case of a 1,5 fold decrease or an increase of  $m$  by about 1,5 - 2 fold greater or smaller than optimum without deteriorating the quality of the line in relation to its structure. 3.-The number of beams  $m > m_{\text{optimum}}$  has to be chosen if the shortening

Card 1/2

Distrubuted 103-2-6/11

Il'in, V.A.

AUTHORS: Belevich, K.V., Demeshin, V.P., Il'in, V.A. 103-10-7/10  
Suvorov, G.B. (Moscow)

TITLE: The System of Remote Control for Oil Fields. (Sistema radio-telemekhaniki dlya neftepromyslov)

PERIODICAL: Avtomatika i Telemekhanika, 1957, Vol. 18, Nr 10, pp. 934-936  
(USSR)

ABSTRACT: In cooperation with the design office for the manufacture of apparatuses (KBNP) the Institute for Automation and Remote Control of the Academy of Science of the USSR has developed a remote radio control system with an ultra short wave radio channel for centralized controlling of the entire oilfield according to the results of analysis on the principles for the construction of systems with spread objects. The system secures for each remotely controlled bore hole 1) an automatic transmission of the damage-signal to the dispatcher point, 2) Remote measuring of transmission of the signal over the filling of the automatized holding capacity. 3) A bilateral telephone-radio-communication with signal call of the dispatcher. A detailed description of the apparatus follows. The apparatus was tested and set to work on the Tuymazeneft' oilfield. The Technical Council of the Ministry

Card 1/2

*Il'in* 93-58-3-9/17

AUTHOR:

Geshelin, M. G.; Demoshin, V. P.; Il'in, V. A.

TITLE:

A System for the Telemechanization of Oilfield Operations With the  
Aid of Radio Channels (Sistema dlya telemekhanikatsii neftepromyslov  
s radiokanalom)

PERIODICAL:

Neftyanoye khozyaystvo, 1958, Nr 3, pp 35-41 (USSR)

ABSTRACT:

The article describes a central radio telecontrol system designed according to specifications which were approved by the former Technical Council (Tekhnicheskiy sovet) of the USSR Ministry of the Petroleum Industry. The system includes automatic transmission of emergency signals and oil yield data to a central station, and two-way radiotelephone communication. Emergency signals are transmitted from contact transmitters which were developed and produced by the Design Office of the Petroleum Industry (KB NP) and by the Institute of Automation and Telemechanics of the Academy of Sciences (IAT AN). The wells are grouped in four 1-17 clusters of 1-20 wells each. The system includes a minimum number of relays (Fig. 1), an R-106 radio station with 18 fixed waves, a transmitting unit (Fig. 3), a coding unit and generators (Fig. 4), and a decoding unit with a group amplifier (Fig. 5). Fig. 2 shows the general structure of a system operating on the principle of frequency selection and

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95-58-3-9/17

A System for the Telemechanization of Oilfield Operations (Cont.)

includes 20 radio channels. The coding apparatus and generators represent one unit consisting of a radio tube, two thyratrons with a cold MIKh-90 cathode, three RGM electromagnetic relays, and two RC generators with discharge tubes. The electric field intensity of the wells is given in Table 1. The system was successfully tested at the 5th oilfield of the State All-Union Association of the Tuymazy Oil and Gas Industry ('Tuymazaneft'), and proved highly reliable, simple, and suitable for the telemechanization of oilfield operations in the Eastern regions. Serial production of apparatus for the SRT-1 system will be organized in two plants in 1956. There are 6 figures and 1 table.

AVAILABLE: Library of Congress

Card 2/2

30(7)  
AUTHORS:

Il'in, V. A., Doctor of Technical Sciences, Domanitskiy, S. M., Candidate of Technical Sciences

307/30-58-11-33/48

TITLE:

Soviet Scientists on the Exposition (Sovetskiye uchenyye o vystavke)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 11, pp 112-113 (USSR)

ABSTRACT:

The authors were mainly interested in exhibits from the field of automation. In their opinion the Belgian pavilions presented the greatest number of interesting exhibits. They mention the exhibits of some large Belgian firms as well as of Belgian branches of American firms (digital computers which can not only be used for office and banking operations, but also for the automation of production processes; a contactless automatic telephone exchange for 36 parties, and other features). In the field of metalworking machinery with automatic controls the pavilions of the USSR, Czechoslovakia, Great Britain and Belgium are mentioned as worthwhile seeing, whereas the corresponding exhibits in the US pavilion are called somewhat less interesting. The Soviet pavilion contained electronic control apparatus as well as the simulator plant

Card 1/2

Soviet Scientists on the Exposition

SOV/30-58-11-33/48

**EMU** -8 and other exhibits which could be operated by the visitors in contrast to other pavilions. Finally the author states that some of the exhibits in the Soviet pavilion were less effectively arranged than those in the Czech pavilion. Furthermore, he expresses his astonishment at the fact that the USSR exhibited several obsolete recording instruments. There is 1 figure.

Card 2/2

Il'in, V. A.

103-4-6/9

AUTHORS: Il'in, V. A., Kurdyukov, K. P. (Moscow)

TITLE: Frequency Methods of Remote Control of Dispersed Objects  
(O chastotnykh metodakh teleupravleniya rassredotochennymi  
ob'yektami)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 2, pp. 174-186  
(USSR)

ABSTRACT: In the course of the analysis of different methods of selection a frequency selection cont: 1 method for distributed objects is given. The construction principles of the frequency equipment of a remote control with frequency relay which has an oscillation circuit in series connection was investigated and developed. The problems of the structure selection of remote control lines for distributed objects was investigated in Reference 1. The following is shown:  
1) The frequency method for the selection makes it possible to have a minimum number of relays per object. This essentially reduces the number of electromagnetic relays within the system with distributed objects. The remote control apparatus

Card 1/2

103-2-6/9

## Frequency Methods of Remote Control of Dispersed Objects

at the object can be very simple with this method, it operates reliably and meets the demands for standardization with different capacities of the system. 2) With the frequency method in the case of the control of the object being carried out according to its selection a wrong selection as well as the control of another object can occur under the influence of a disturbance. This basic deficiency of the frequency method can in principle be eliminated by using the combined frequency-polar- or frequency-combination selection method. 3) With distributed objects it is in many cases useful to select an electric oscillation -LC-circuit, in series connection, as described, as element for the frequency selection. 4) The frequency relay worked out with a current circuit in series connection can be used in the frequency combination selective method which extends the range of applicability of the frequency method. Only one relay is used here per object. 5) An amplitude frequency method for the control of the position of the object is given. This makes it possible to simplify the remote signal system for lines of up to 5 - 10 km. There are 12 figures, 2 tables, and 6 Soviet references

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SUBMITTED April 19, 1957

1. Frequency-Control systems-Mathematical analysis

AUTHORS:

Il'in, V. A., Novikov, A.I.(Moscow)

103-19-8-5/11

TITLE:

New Principles for the Construction of Telemetering Systems  
With Pulse-Frequency and Pulse-Width Modulation  
(Novyye printsipy postroyeniya sistem teleizmereniya s  
vremya-impul'snoy i shirotno-impul'snoy modulyatacii)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 8, pp  
757-761 (USSR)

ABSTRACT:

As a result of the work intended for the construction of highly stable transducers (modulators, demodulators etc.) new, simple highly stable pulse-frequency and pulse-width transducers were proposed and developed at the Institute for Automation and Telemetering of the AS USSR (Institut avtomatiki i telemekhaniki AN SSSR), which were denoted as exponential transducers. They are described and the foundations of their theory are detailed. The exponential pulse-width transducer consists of a bridge, to the one branch of which belong the resistances  $R_1$  and  $R_2$ , whereas the other capacitance and a resistance or an inductivity and a resistance. A diode is inserted into the diagonal connection of the bridge. The fundamental formulae are

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New Principles for the Construction of Telemetering Systems With Pulse-Frequency and Pulse-Width Modulation 103-19-6-5/11

written down. A new method for the construction of a multi-channel system with pulse frequency modulation and a time separation of the channels without a commutator is given. Furthermore the diagram of the transmitter (peredatchik) and of the receiver of a one-channel telemetering system BGT-1 is given. This is done primarily to replace the outdated system of the Bristol Company (Bristol'). The characteristic particularity of the receiver is the memory element. The characteristics obtained on the basis of the investigation are given. The errors of measurement correspond to those of equipment of first grade. The system operates normally, when the resistance connected in series to the leads is varied from 0 to 10,000 ohms. There are 8 figures.

SUBMITTED: April 1, 1958

- 1. Telemeter systems--Design
- 2. Telemeter systems--Equipment
- 3. Transducers--Design
- 4. Electric bridges--Performance

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IL'IN, V.A.

GESHELIN, M.G.; DEMESHIN, V.P.; IL'IN, V.A.

Using a radio channel for remote control of oil wells, Neft. khog.  
36 no.3:35-41 Mr '58. (MIRA 11:4)  
(Remote control) (Oil wells)

FROLOV, Anatoliy Ivanovich; KLOCHKOVA, Yevdokiya Vasil'yevna;  
IL'IN, V.A., nauchnyy red.; NIKITINA, R.D., red.; TISH, R.K., tekhn.red.

[Photochemical method of preparing printed circuits]  
Fotokhimicheskii sposob izgotovleniya pechatnykh skhem.  
Leningrad, Gos.sciurznoe izd-vo sudostroit.promyschl., 1959.  
76 p. (MIRA 12:6)

(Printed circuits)

9 (2)

06349  
SOV/142-2-4-2/26

AUTHOR: Il'in, V.A.

TITLE: On Cybernetics

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,  
1959, Vol 2, Nr 4, pp 399-404 (USSR)

ABSTRACT: This article was published to attract the attention of readers and authors to contemporary radio engineering problems in cybernetics. The article is intended to be a subject of discussion. The author reviews briefly the present development of cybernetics and presents two block diagrams of simple control circuits. He mentions research on cybernetics performed in the USA (Harvard University, RCA) and in Germany. There are 2 block diagrams and 9 Soviet references.

SUBMITTED: April 21, 1958

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9(4)

SOV/30-59-5-8/43

AUTHOR: Il'in, V. A., Doctor of Technical Sciences

TITLE: Important Trends in Telemechanics (Vazhnyye napravleniya v telemekhanike)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 5, pp 30 - 34

ABSTRACT: In the Institut avtomatiki i telemekhaniki Akademii nauk SSSR (Institute of Automation and Telemechanics of the Academy of Sciences, USSR) a cycle of investigations on the elimination of disturbances of the telemechanical systems in the case of weak fluctuation disturbances was concluded; the investigations were carried out on the basis of the theory worked out by V. A. Kotel'nikov. The optimum parameters of the systems were determined from the viewpoint of elimination of disturbances. In the field of reliable telemechanical devices three directions have developed: the development and use of ferromagnetic elements with a rectangular hysteresis cycle; the construction of contact-less frequency selectors (chastotnyy izbiratel') on the basis of LC-circuits and filters with ferromagnetic cores; the construction of exponential converters as well as telemeasuring and control devices with contact-less elements (see figures 1 and 2). A telemeasuring system was constructed on the basis

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## Important Trends in Telemechanics

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of exponential transformers which has better characteristics than those hitherto used. Its accuracy of measurement amounts to 99 % and its range of applicability to 500 km. The All-Union Conference on Automation and Telemechanics in Petroleum Prospecting, held in April 1958 approved of the frequency systems as the most appropriate ones and recommended to introduce them. In 1958 about 900 boreholes in the petroleum fields were telemechanized and further work is carried out in this connection. Characteristic of modern automatic systems is the still growing use of digital computers. At present already a number of comprehensive telemechanic systems for petroleum fields, gas pipes, railroad transport is already constructed the scientific bases of which are still insufficiently worked out; this leads in some cases to unfavorable solutions. V. I. Siforov, M. A. Bebiashvili carried out interesting work in connection with the reliability of systems with a chain circuit, as is applied, for example, in radio relays. In conclusion, the author of this paper states that the elaboration of scientific bases for the construction and the theory of teleautomatic and complex systems is to be regarded as the

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Important Trends in Telemechanics

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most important direction in the development of modern telemechanics. He calls for investigations in the institutes of the AS USSR to be conducted on a far larger scale, as it will only under these conditions be possible to solve the tasks of the 7-year Plan in this field. There are 2 figures.

Card 3/3

IL'IN, V.A.; KURDYUKOV, K.P.; STAPANOV, V.I. (Moskva)

The KST-1 combined remote control system for dispersed objects. Avtom.i  
telem. 20 no.2:249-252 P '59. (MIRA 12:3)  
(Remote control)